Photon Reactions and Transport Summary of Data Needs and Interests

Photonuclear

- Assess accuracy of current libraries
- Improve cross section and emission data in energy ranges of interest
 - ~ MeV range photons
 - High energy photons for secondary effects on electronics protection

Photoatomic

- X-ray mass attenuation coefficients, atomic cross sections
 - Improving performance of X-ray and gamma ray analysis methods for safeguards

Improve Simulation and Modelling Capabilities

- Support advanced accelerator development
 - Isotope replacement, or new capabilities
- Accurate and efficient methods for high-flux, high-attenuation, and/or complex environments
- Evaluation of photonuclear simulation performance compared to operationally-relevant measurements